

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 1237P006PCTj	FOR FURTHER ACTION		See Form PCT/IPEA/416
International application No. PCT/SG2005/000054	International filing date (<i>day/month/year</i>) 24 February 2005	Priority date (<i>day/month/year</i>) 13 April 2004	
International Patent Classification (IPC) or national classification and IPC Int. Cl. <i>E06B 3/82</i> (2006.01) <i>E06B 3/70</i> (2006.01) <i>B21D 39/02</i> (2006.01) <i>E06B 3/988</i> (2006.01)			
Applicant MALAYSIA WOODWORKING (PTE) LTD et al			

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.	
2. This REPORT consists of a total of 3 sheets, including this cover sheet.	
3. This report is also accompanied by ANNEXES, comprising:	
a.	<input checked="" type="checkbox"/> (<i>sent to the applicant and to the International Bureau</i>) a total of 4 sheets, as follows: <div style="margin-left: 20px;"> <input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). <input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. </div>
b.	<input type="checkbox"/> (<i>sent to the International Bureau only</i>) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or table related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:	
<input checked="" type="checkbox"/>	Box No. I Basis of the report
<input type="checkbox"/>	Box No. II Priority
<input type="checkbox"/>	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Box No. IV Lack of unity of invention
<input checked="" type="checkbox"/>	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/>	Box No. VI Certain documents cited
<input type="checkbox"/>	Box No. VII Certain defects in the international application
<input type="checkbox"/>	Box No. VIII Certain observations on the international application

Date of submission of the demand 25 May 2005	Date of completion of this report 06 March 2006
Name and mailing address of the IPEA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaaustralia.gov.au Facsimile No. (02) 6285 3929	Authorized Officer LEOPOLD FILIPOVIC Telephone No. (02) 6283 2105

Box No. I Basis of the report**1. With regard to the language, this report is based on:**

- ☒ The international application in the language in which it was filed
- ☐ A translation of the international application into _____, which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3(a) and 23.1 (b))
- ☐ publication of the international application (under Rule 12.4(a))
- ☐ international preliminary examination (Rules 55.2(a) and/or 55.3(a))

2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):

☐ the international application as originally filed/furnished

☒ the description:

pages **1-9** as originally filed/furnished

pages* received by this Authority on _____ with the letter of _____

pages* received by this Authority on _____ with the letter of _____

☒ the claims:

pages as originally filed/furnished

pages* as amended (together with any statement) under Article 19

pages* **10-13** received by this Authority on **1 June 2005** with the letter of **25 May 2005**

pages* received by this Authority on _____ with the letter of _____

☒ the drawings:

pages **1-6** as originally filed/furnished

pages* received by this Authority on _____ with the letter of _____

pages* received by this Authority on _____ with the letter of _____

☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to the sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to the sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims 1-17 and 19-23	YES
	Claims	NO
Inventive step (IS)	Claims 1-17 and 19-23	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-17 and 19-23	YES
	Claims	NO

2. Citations and explanations (Rule 70.7)

None of the documents cited in the International Search Report discloses all the features of the invention defined by claims 1-17 and 19-23 as amended. Therefore the subject matter of these claims is new and meets the requirements of Article 33(2) PCT with regard to novelty.

The claimed invention is not obvious in the light of any of the cited documents nor is it disclosed in any obvious combination of them. It is also considered that it would not be obvious to a person skilled in the art in the light of common general knowledge either by itself or in combination with any of these documents. Therefore the subject matter of claims 1-17 and 19-23 meets the requirements of Article 33(3) PCT with regard to inventive step.

Claims

What is claimed is:

1. A method for assembling two or more skins of a metal structure, the method comprising:
temporarily fastening a first skin with at least one profiled edge to a work surface;
overlaying a second skin with at least one profiled edge by moving a the second skin with at least one profiled edge to engage the at least one profile edge with the at least one profiled edge of the first skin, thereby the engaged profiled edges forming at least one channel;
and
applying at least one locking means into the at least one channel; and
finishing the metal structure.
2. The method of Claim 1, wherein the metal structure is a door.
3. The method of Claim 1, wherein the metal structure is a panel.
4. The method of Claim 1, wherein the step of moving comprises sliding the second skin over the first skin from one end of the first skin.
5. The method of Claim 1, wherein the step of moving comprises placing the second skin over the first skin.
6. The method according to Claim 1, wherein the channel distorted by the applying of the locking means.
7. The method according to Claim 1, wherein the channel not distorted by the applying of the locking means.

8. The method according to Claim 1, wherein the at least one profiled edge of the first skin and the at least one profiled edge of the second skin comprise engagement members; the engagement members of the first skin further complementary to the engagement members of the second skin.
9. The method of Claim 8, wherein the complementary engagement members are only brought into engagement by the applying of the locking means.
10. The method of Claim 1, wherein the application of the locking means is reversible.
11. The method of Claim 1, wherein the application of the locking means is not reversible.
12. The method of Claim 1, wherein in the application of the locking means causes the skins to be locked together.
13. The method of Claim 1, wherein the step of the finishing of the metal structure further comprises:
 - welding the skins;
 - applying fasteners;
 - installing ironmongery;
 - capping any exposed ends; and
 - painting the structure.
14. A metal structure comprising:
 - a first skin with at least one profiled edge substantially forming one side of the structure;
 - at least one more skin with at least one profiled edge substantially forming the other side of the structure; and
 - a locking means for engaging the skins together;

wherein the at least one profiled edge of the first skin and the at least one profiled edge of the second skin form at least one channel, and a tight fit between the skins is obtained only after the a locking means is applied to the at least one channel.

15. A metal structure according to Claim 14, wherein the structure is a door.
16. A metal structure according to Claim 14, wherein the structure is a panel.
17. A metal structure according to Claim 14, wherein the at least one profiled edge of the first skin and the at least one profiled edge of the at least one more skin comprise engagement members; the engagement members of the first skin further complementary to the engagement members of the at least one more skin.
18. Cancelled.
19. A metal structure according to Claim 14, wherein the locking means is a locking bar.
20. A metal structure according to Claim 14, wherein the locking means is a wedge.
21. A metal structure according to Claim 14, wherein the metal structure further comprises:
 - welding;
 - additional fasteners;
 - ironmongery;
 - end caps; and
 - paint.
22. A metal structure according to Claim 15, wherein the at least one profiled edge forming the one side of the first door is the shorter side (rail) of the door.

23. A metal structure according to Claim 15, wherein the at least one profiled edge forming the one side of the first door is the longer side (stile) of the door.